

STIC-Biotech/ChemLib

115552

**From:** Schnizer, Holly  
**Sent:** Thursday, February 26, 2004 3:33 PM  
**To:** STIC-Biotech/ChemLib  
**Subject:** FW: request for RUSH text/structure search for appl. no. 09/811,132

The copy of this email forwarded from Christina Chan to me didn't show the structures so I copied them again into this email. Please let me know if the structures don't show up and I'll bring a copy down to the library.

Thanks.

Holly Schnizer

-----Original Message-----

**From:** Chan, Christina  
**Sent:** Thursday, February 26, 2004 3:27 PM  
**To:** Schnizer, Holly; STIC-Biotech/ChemLib  
**Subject:** RE: request for RUSH text/structure search for appl. no. 09/811,132

**Please rush. Thanks Chris**

*Chris Chan*

TC 1600 New Hire Training Coordinator and SPE 1644  
(571)-272-0841  
Remsen, 3E89

-----Original Message-----

**From:** Schnizer, Holly  
**Sent:** Thursday, February 26, 2004 2:20 PM  
**To:** Chan, Christina  
**Subject:** request for RUSH text/structure search for appl. no. 09/811,132

I would like to request a RUSH search for the following in 09/811,132 which is an amended due this biweek:

Please search for atractyloside derivatives that are substituted at the 6' hydroxy. The structure of atractyloside is shown below along with 4 examples of substitutions at the 6' hydroxyl:

Also, please search for the use of these compounds in assays to detect adenine nucleotide translocator polypeptides (also called ANT, ANT1, ANT2, etc., ADP carrier, AAC, ADP ATP carrier, adenine nucleotide translocase).

<< OLE Object: Picture (Device Independent Bitmap) >>  
Thank you.

Holly Schnizer  
AU 1653  
Office: REM 3C79  
Mailbox: REM 3C70  
(571)272-0958

Point of Contact:

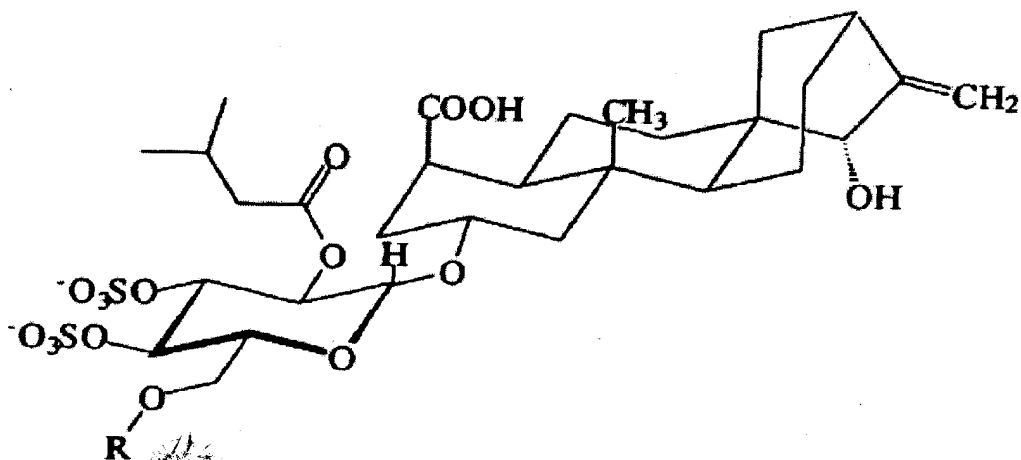
Searcher: Alexandra Wacławiw  
Phone: Technical Info: Specialist  
Location: M1 6A02 Tel: 308-4491  
Date Picked Up: 3-1  
Date Completed: 3-1  
Searcher Prep/Review: 12  
Clerical:  
Online time: 20

TYPE OF SEARCH:

NA Sequences: \_\_\_\_\_  
AA Sequences: \_\_\_\_\_  
Structures: (1) \_\_\_\_\_  
Bibliographic: \_\_\_\_\_  
Litigation: \_\_\_\_\_  
Full text: \_\_\_\_\_  
Patent Family: \_\_\_\_\_  
Other: \_\_\_\_\_

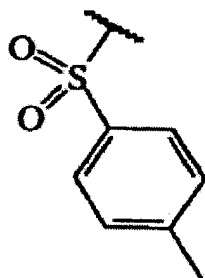
VENDOR/COST (where applic.)

STN: A 164.00  
DIALOG: \_\_\_\_\_  
Questel/Orbit: \_\_\_\_\_  
DRLink: \_\_\_\_\_  
Lexis/Nexis: \_\_\_\_\_  
Sequence Sys.: \_\_\_\_\_  
WWW/Internet: \_\_\_\_\_  
Other (specify): \_\_\_\_\_

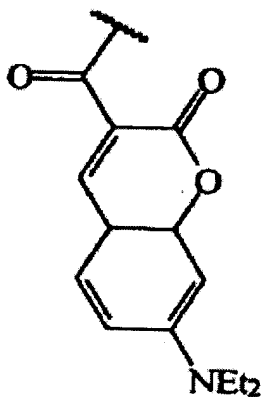


R = H

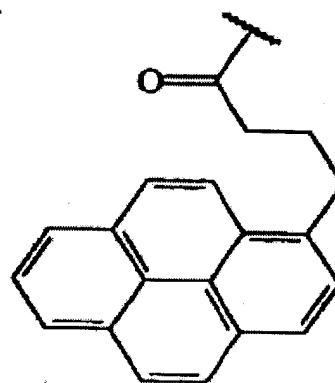
1



2



3



4

Point of Contact:  
Alexandra Wacławiw

Searcher Technical Info. Specialist

Phone: CM1 6A02 Tel: 308-4461

Location: \_\_\_\_\_

Date Picked Up: \_\_\_\_\_

Date Completed: \_\_\_\_\_

Searcher Prep/Review: \_\_\_\_\_

Clerical: \_\_\_\_\_

Online time: \_\_\_\_\_

TYPE OF SEARCH:

NA Sequences: \_\_\_\_\_

AA Sequences: \_\_\_\_\_

Structures: \_\_\_\_\_

Bibliographic: \_\_\_\_\_

Litigation: \_\_\_\_\_

Full text: \_\_\_\_\_

Patent Family: \_\_\_\_\_

Other: \_\_\_\_\_

VENDOR/COST (where applic.)

STN: \_\_\_\_\_

DIALOG: \_\_\_\_\_

Questel/Orbit: \_\_\_\_\_

DRLink: \_\_\_\_\_

Lexis/Nexis: \_\_\_\_\_

Sequence Sys.: \_\_\_\_\_

WWW/Internet: \_\_\_\_\_

Other (specify): \_\_\_\_\_

=> d his

(FILE 'REGISTRY' ENTERED AT 07:58:43 ON 01 MAR 2004)  
DEL HIS Y

L1	102 S 3406.1/RID AND 46.157/RID AND S>1
L2	1 S L1 AND 3593.5/RID
L3	1 S L1 AND 591.146/RID
L4	5 S L1 AND C6/ES AND S=3
L5	0 S (C6 AND C50 AND C16)/RF
L6	3 S L4 AND 3/NRS
L7	1 S L6 AND 267886-16-8

FILE 'CAPLUS' ENTERED AT 08:04:04 ON 01 MAR 2004  
L8 2 S L2 OR L3 OR L7

=> fil reg

FILE 'REGISTRY' ENTERED AT 08:05:00 ON 01 MAR 2004  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file  
provided by InfoChem.

STRUCTURE FILE UPDATES: 27 FEB 2004 HIGHEST RN 655785-05-0  
DICTIONARY FILE UPDATES: 27 FEB 2004 HIGHEST RN 655785-05-0

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more  
information enter HELP PROP at an arrow prompt in the file or refer  
to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

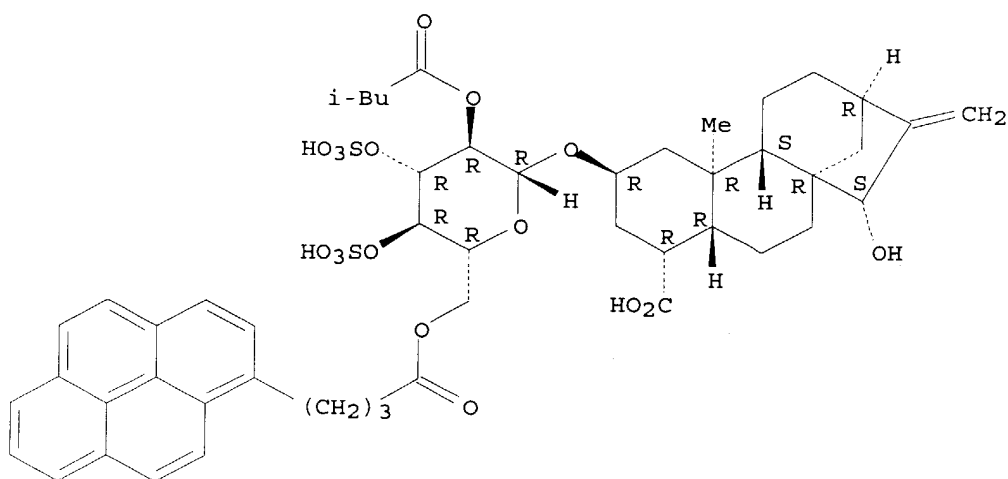
=> d que 12

L1 102 SEA FILE=REGISTRY ABB=ON PLU=ON 3406.1/RID AND 46.157/RID  
AND S>1  
L2 1 SEA FILE=REGISTRY ABB=ON PLU=ON L1 AND 3593.5/RID

=> d 12

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 267886-18-0 REGISTRY  
CN 19-Norkaur-16-en-18-oic acid, 15-hydroxy-2-[[2-O-(3-methyl-1-oxobutyl)-6-O-  
[1-oxo-4-(1-pyrenyl)butyl]-3,4-di-O-sulfo-β-D-glucopyranosyl]oxy]-,  
(2β,4α,15α)- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C50 H60 O17 S2  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

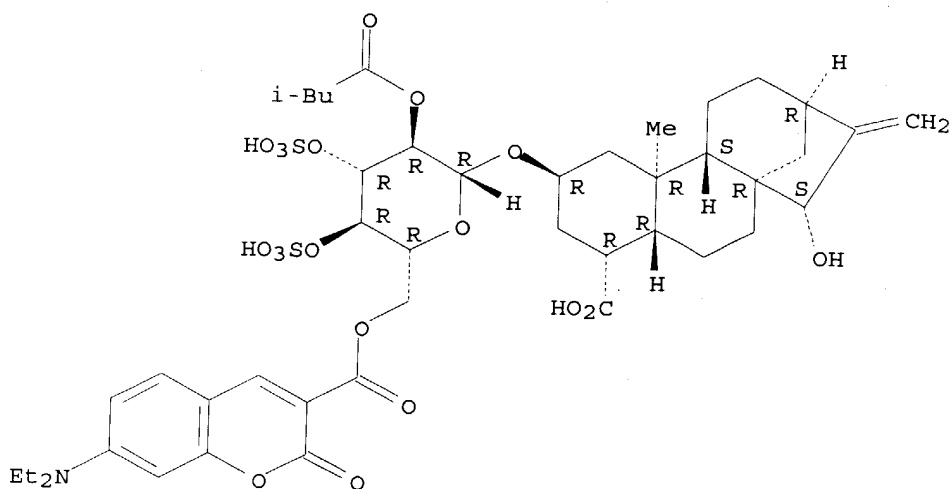
2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d que l3;d l3

L1 102 SEA FILE=REGISTRY ABB=ON PLU=ON 3406.1/RID AND 46.157/RID  
AND S>1  
L3 1 SEA FILE=REGISTRY ABB=ON PLU=ON L1 AND 591.146/RID

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 267886-17-9 REGISTRY  
CN 19-Norkaur-16-en-18-oic acid, 2-[[6-O-[[7-(diethylamino)-2-oxo-2H-1-benzopyran-3-yl]carbonyl]-2-O-(3-methyl-1-oxobutyl)-3,4-di-O-sulfo-β-D-glucopyranosyl]oxy]-15-hydroxy-, (2β,4α,15α) - (9CI)  
(CA INDEX NAME)  
FS STEREOSEARCH  
MF C44 H59 N O19 S2  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

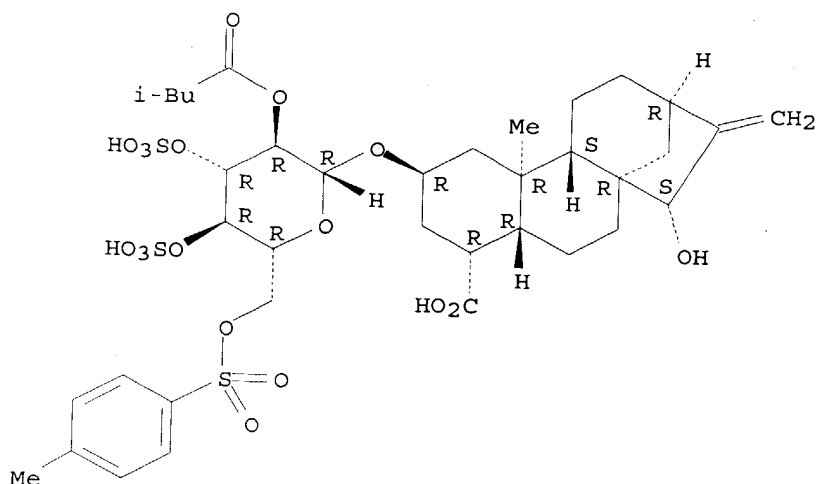
2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d que 17; 17

L1 102 SEA FILE=REGISTRY ABB=ON PLU=ON 3406.1/RID AND 46.157/RID  
AND S>1  
L4 5 SEA FILE=REGISTRY ABB=ON PLU=ON L1 AND C6/ES AND S=3  
L6 3 SEA FILE=REGISTRY ABB=ON PLU=ON L4 AND 3/NRS  
L7 1 SEA FILE=REGISTRY ABB=ON PLU=ON L6 AND 267886-16-8

L7 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 267886-16-8 REGISTRY  
CN 19-Norkaur-16-en-18-oic acid, 15-hydroxy-2-[[2-O-(3-methyl-1-oxobutyl)-6-O-  
[(4-methylphenyl)sulfonyl]-3,4-di-O-sulfo-β-D-glucopyranosyl]oxy]-,  
(2β,4α,15α)-(9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
DR 267886-52-2  
MF C37 H52 O18 S3  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> fil caplus  
FILE 'CAPLUS' ENTERED AT 08:05:51 ON 01 MAR 2004  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 1 Mar 2004 VOL 140 ISS 10  
FILE LAST UPDATED: 29 Feb 2004 (20040229/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

=> d que nos 18  
L1 102 SEA FILE=REGISTRY ABB=ON PLU=ON 3406.1/RID AND 46.157/RID  
AND S>1  
L2 1 SEA FILE=REGISTRY ABB=ON PLU=ON L1 AND 3593.5/RID  
L3 1 SEA FILE=REGISTRY ABB=ON PLU=ON L1 AND 591.146/RID  
L4 5 SEA FILE=REGISTRY ABB=ON PLU=ON L1 AND C6/ES AND S=3

L6 3 SEA FILE=REGISTRY ABB=ON PLU=ON L4 AND 3/NRS  
 L7 1 SEA FILE=REGISTRY ABB=ON PLU=ON L6 AND 267886-16-8  
 L8 2 SEA FILE=CAPLUS ABB=ON PLU=ON L2 OR L3 OR L7

=> d .ca hitstr l8 1-2

L8 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 2001:833514 CAPLUS  
 DOCUMENT NUMBER: 136:1609  
 TITLE: Production of adenine nucleotide translocator (ANT) with recombinant cells, ANT ligands and screening assays therefor  
 INVENTOR(S): Anderson, Christen M.; Davis, Robert E.; Clevenger, William; Wiley, Sandra Eileen; Miller, Scott W.; Szabo, Tomas R.; Ghosh, Soumitra S.; Moos, Walter H.; Pei, Yazhong; Carroll, Amy K.  
 PATENT ASSIGNEE(S): Mitokor, USA  
 SOURCE: PCT Int. Appl., 147 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001085944	A2	20011115	WO 2001-US15416	20010511
WO 2001085944	A3	20020829		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1283884	A2	20030219	EP 2001-935420	20010511
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003532420	T2	20031105	JP 2001-582533	20010511
PRIORITY APPLN. INFO.: US 2000-569327 A 20000511				
WO 2001-US15416 W 20010511				
OTHER SOURCE(S): MARPAT 136:1609				
AB Compns. and methods are provided for producing adenine nucleotide translocator (ANT) polypeptides and fusion proteins, including the production and use of recombinant expression constructs having a regulated promoter. ANT ligands and compns. and methods for identifying ANT ligands, agents that bind ANT and agents that interact with ANT are also disclosed. Thus, ANT cDNAs were expressed in Sf9 and E.coli. Fluorescent and radiolabeled derivs. of atractyloside were prepared Binding of these derivs. to ANT was examined				
IC ICM C12N015-12				
ICS C12N015-62; C07K014-705; C07K016-28; G01N033-53; G01N033-58; G01N033-60; G01N033-68; C07H015-203				
CC 3-2 (Biochemical Genetics)				
Section cross-reference(s): 1				
IT 13811-11-5P 19374-20-0P 53937-19-2P 84882-67-7P 267886-16-8P				
267886-17-9P 267886-18-0P 267886-19-1P 267886-21-5P				



Holly Schnizer 09/811,132

267886-32-8P 267886-36-2P 267886-38-4P 267886-40-8P 267886-41-9P  
267886-42-0P 267886-43-1P 267886-44-2P 267886-45-3P 267886-46-4P  
267886-47-5P 267886-49-7P 267886-54-4P 268557-13-7P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(production of adenine nucleotide translocator (ANT) with recombinant  
cells, ANT ligands and screening assays therefor)

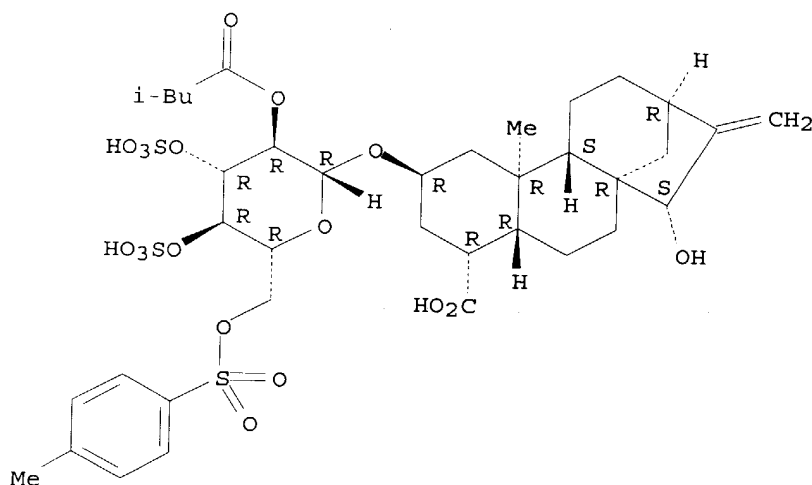
IT 267886-16-8P 267886-17-9P 267886-18-0P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(production of adenine nucleotide translocator (ANT) with recombinant  
cells, ANT ligands and screening assays therefor)

RN 267886-16-8 CAPLUS

CN 19-Norkaur-16-en-18-oic acid, 15-hydroxy-2-[[2-O-(3-methyl-1-oxobutyl)-6-O-  
[(4-methylphenyl)sulfonyl]-3,4-di-O-sulfo- $\beta$ -D-glucopyranosyl]oxy]-,  
(2 $\beta$ ,4 $\alpha$ ,15 $\alpha$ )-(9CI) (CA INDEX NAME)

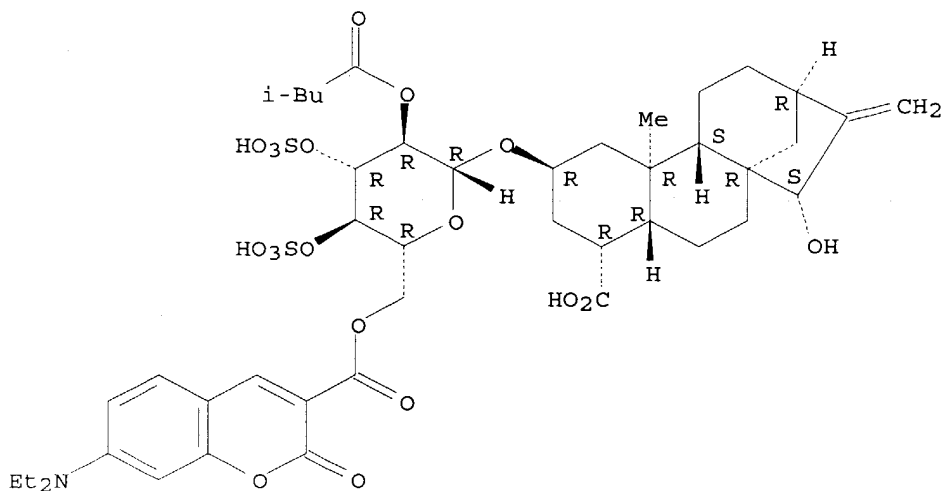
Absolute stereochemistry.



RN 267886-17-9 CAPLUS

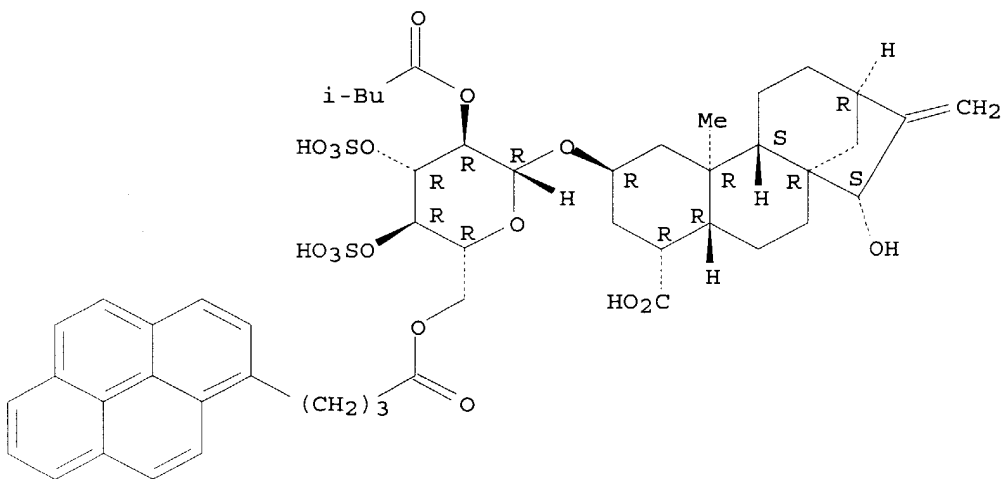
CN 19-Norkaur-16-en-18-oic acid, 2-[[6-O-[[7-(diethylamino)-2-oxo-2H-1-  
benzopyran-3-yl]carbonyl]-2-O-(3-methyl-1-oxobutyl)-3,4-di-O-sulfo- $\beta$ -  
D-glucopyranosyl]oxy]-15-hydroxy-, (2 $\beta$ ,4 $\alpha$ ,15 $\alpha$ )-(9CI)  
(CA INDEX NAME)

Absolute stereochemistry.



RN 267886-18-0 CAPLUS  
 CN 19-Norkaur-16-en-18-oic acid, 15-hydroxy-2-[[2-O-(3-methyl-1-oxobutyl)-6-O-[1-oxo-4-(1-pyrenyl)butyl]-3,4-di-O-sulfo-β-D-glucopyranosyl]oxy]-, (2β,4α,15α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L8 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 2000:314834 CAPLUS  
 DOCUMENT NUMBER: 132:344104  
 TITLE: Cloning and production of human adenine nucleotide translocator and the synthesis and screening assays for novel ligands  
 INVENTOR(S): Anderson, Christen M.; Davis, Robert E.; Clevenger, William; Wiley, Sandra Eileen; Miller, Scott W.; Szabo, Tomas R.; Ghosh, Soumitra S.

PATENT ASSIGNEE(S): Mitokor, USA  
 SOURCE: PCT Int. Appl., 175 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000026370	A2	20000511	WO 1999-US25883	19991103
WO 2000026370	A3	20001116		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, VZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1049780	A1	20001108	EP 1999-968032	19991103
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002539761	T2	20021126	JP 2000-579742	19991103
US 2001044144	A1	20011122	US 2001-811094	20010314
US 2002012992	A1	20020131	US 2001-810644	20010314
PRIORITY APPLN. INFO.:				
US 1998-185904 A 19981103				
US 1999-393441 A 19990908				
WO 1999-US25883 W 19991103				

OTHER SOURCE(S): MARPAT 132:344104

AB Comps. and methods are provided for producing adenine nucleotide translocator (ANT) polypeptides and fusion proteins, including the production and use of recombinant expression constructs having a regulated promoter. Bacterial, insect, yeast (Sf9 cells and Trichoplusia ni cells), and mammalian expression systems are designed for reliable production of recombinant human ANT polypeptides in significant quantities, by employing regulated promoters and recombinant ANT fusion products with glutathione S-transferase and green fluorescent protein. The synthesis and properties of representative atractyloside derivs. as ANT ligands are described. ANT ligands and comps. and methods for identifying ANT ligands, agents that bind ANT, and agents that interact with ANT are also disclosed.

IC ICM C12N015-12  
 ICS C07K014-47; C12N015-62; C12N005-10; C12N009-00; C12N015-86; G01N033-50

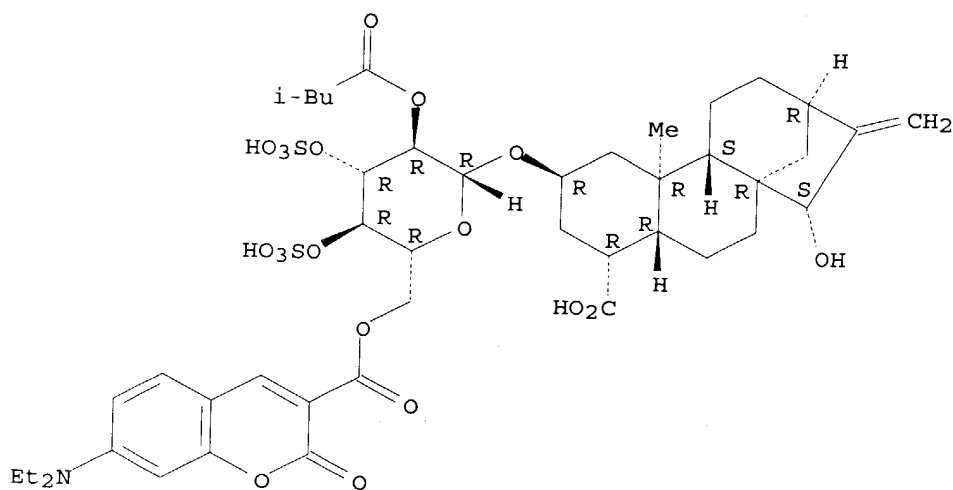
CC 3-2 (Biochemical Genetics)  
 Section cross-reference(s): 1, 9, 33

IT 267886-17-9P 267886-18-0P 267886-19-1P  
 RL: ARG (Analytical reagent use); RCT (Reactant); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 (cloning and production of human adenine nucleotide translocator and the synthesis and screening assays for novel ligands)

IT 13811-11-5P 33446-14-9P, 3-(4-Methoxy-3-methylbenzoyl)propionic acid  
 33446-15-0P, 4-(4-Methoxy-3-methylphenyl)butyric acid 53937-19-2P  
 267886-16-8P 267886-20-4P 267886-21-5DP, alkyldiamine derivs.  
 267886-21-5P 267886-53-3P 267886-55-5P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (cloning and production of human adenine nucleotide translocator and the

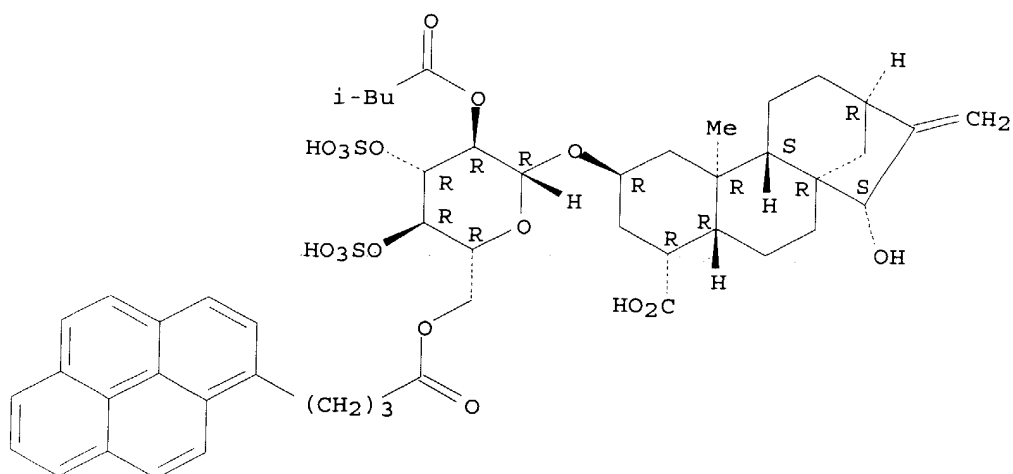
synthesis and screening assays for novel ligands)  
 IT 267886-17-9P 267886-18-0P  
 RL: ARG (Analytical reagent use); RCT (Reactant); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 (cloning and production of human adenine nucleotide translocator and the synthesis and screening assays for novel ligands)  
 RN 267886-17-9 CAPLUS  
 CN 19-Norkaur-16-en-18-oic acid, 2-[[6-O-[[7-(diethylamino)-2-oxo-2H-1-benzopyran-3-yl]carbonyl]-2-O-(3-methyl-1-oxobutyl)-3,4-di-O-sulfo-β-D-glucopyranosyl]oxy]-15-hydroxy-, (2β,4α,15α)- (9CI)  
 (CA INDEX NAME)

Absolute stereochemistry.



RN 267886-18-0 CAPLUS  
 CN 19-Norkaur-16-en-18-oic acid, 15-hydroxy-2-[[2-O-(3-methyl-1-oxobutyl)-6-O-[1-oxo-4-(1-pyrenyl)butyl]-3,4-di-O-sulfo-β-D-glucopyranosyl]oxy]-, (2β,4α,15α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 267886-16-8P

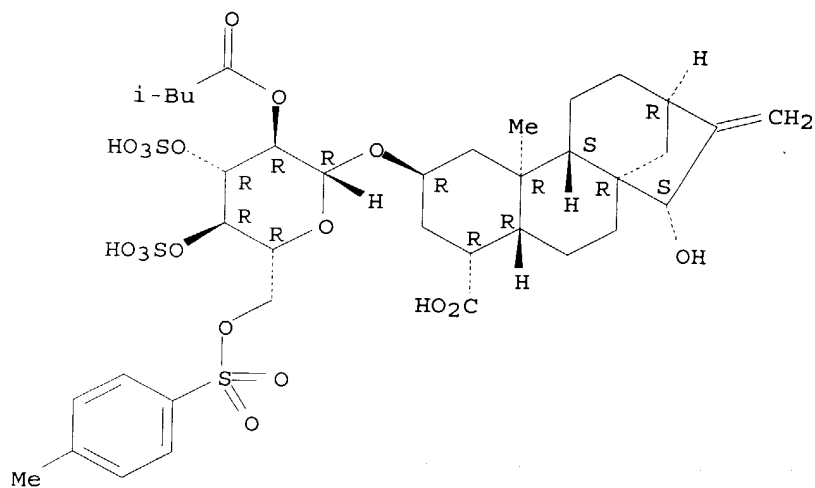
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(cloning and production of human adenine nucleotide translocator and the synthesis and screening assays for novel ligands)

RN 267886-16-8 CAPLUS

CN 19-Norkaur-16-en-18-oic acid, 15-hydroxy-2-[[2-O-(3-methyl-1-oxobutyl)-6-O-[(4-methylphenyl)sulfonyl]-3,4-di-O-sulfo-β-D-glucopyranosyl]oxy]-, (2β,4α,15α) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=>